

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-3 (withdrawn)

4. (presently amended) A system for providing operation, diagnostic, procedure or maintenance training, comprising:

a mechanical mock-up of at least a part of a system on which the training is required, the mechanical mock-up having a plurality of probe points and electronically readable memories, which are each one of said probe points being respectively connected to one of said electronically readable memories that respectively store a unique identifier code;

a host computer comprising means for communicating with a ~~system/machine simulation~~simulation server, and means for associating each unique identifier code with a corresponding probe event, passing a probe point event to the ~~system/machine simulation~~simulation server, and determining a response of the simulation server~~system/machine simulation~~ to the probe event; and

simulated diagnostic equipment having at least one probe that can be maneuvered to contact any one of the probe points, means for reading the unique identifier code when one of the probe points is contacted by the probe, means for communicating with the host computer in order to pass each unique identifier code to the host computer and to receive feedback from the host computer, and means for processing the feedback to determine a display value to be displayed.

5. (presently amended) The system as claimed in claim 4 ~~wherein~~ wherein each of the electronically readable memories respectively comprise a microelectronic circuit that is activated to output the unique identifier code when the probe contacts ~~a~~ one of the probe points to which the microelectronic circuit is connected.

6. (original) The system as claimed in claim 5 wherein the probe activates the microelectronic circuit when it contacts the probe point by supplying an electrical current through the connection to the microelectronic circuit.

7. (original) The system as claimed in claim 6 wherein the electronically readable memory comprises a touch memory button.
8. (presently amended) The system as claimed in claim ~~1-4~~ wherein the simulated diagnostic tool comprises an electronic multimeter having two probes.
9. (original) The system as claimed in claim 8 wherein the simulated diagnostic tool comprises a simulated digital multimeter, with a mode selector input, and a communications processor for communicating with the host computer.
10. (presently amended) The system as claimed in claim 9 wherein the means for communicating with the host computer ~~is adapted to use~~ comprises means for communicating the mode selection input to the host computer to determine a set of simulation parameters maintained by the simulation server that are to be associated with the display value.
11. (presently amended) The system as claimed in claim 10 further comprising an instructor station that may be used to control the simulation server to simulate system faults.
12. (original) The system as claimed in claim 11 wherein the instructor station further permits an instructor to monitor a training exercise, guide a trainee through a training exercise, create a simulation program, and to select preprogrammed system faults.
13. (original) The system as claimed in claim 12 further comprising an electronic memory in communications with the host computer for storing student responses to training exercises.
14. (presently amended) The system as claimed in claim 12 wherein the host computer further comprises a look-up table for associating the unique identifier code with one of the a probe points ~~of the simulated probe equipment~~ to identify ~~a the~~ probe point event, and a procedure for communicating the probe point event to the simulation server.
- 15-18 (withdrawn)
19. (presently amended) An article comprising:

~~a computer-readable modulated electrical signal emitted from an electronically readable memory connected to, and forming part of, a mechanical mock-up of a system or a machine, for emitting a computer readable modulated electrical signal -upon electrical contact with a probe of a simulated diagnostic tool, -and~~  
~~the signal comprising a unique identifier code embedded in the signal for permitting a training system to determine a probe event that indicates electrical contact between the probe and a probe point on the mechanical mock-up.~~

20. (withdrawn)